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Effects of clustering in the equation of state for neutron stars JARED LALMANSINGH, CARLOS BERTULANI, Texas A&M University-Commerce, STEFAN TYPEL, GSI Helmholtzzentrum für Schwerionenforschung GmbH — Neutron stars are highly dense stars - which are almost wholly comprised of neutrons - originating from the aftermath of supernova of Type Ib, Ic or Type II of a massive progenitor star. Of particular interest for the determination of neutron star properties is the thermodynamics for the coexistence of nuclear clusters entering the equation of state of nuclear matter. We present some analytical developments obtained so far.

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